

Claims:

1. A method for safely logging onto a technical system by means of a user code (11) stored in the system, wherein
  - a) a selection code (3) consisting of a plurality of graphics (2) is displayed,
  - b) a response code (5) consisting of a plurality of graphics (4) is displayed,
  - c) that graphic (4) of the response code (5) is selected whose property(ies), according to the user code (11) stored, is (are) clearly associated with at least one property of at least one graphic (2) of the selection code (3),
  - d) the selected graphic (4) of the response code (5) is checked in accordance with the stored user code (11), and
  - e) if the selected graphic (4) of the response code (5) correlates with the user code (11) stored, logging onto the technical system is effected.
2. A logging-on method according to claim 1, characterized in that the selection code (3) and the response

code (5) are displayed simultaneously.

3. A logging-on method according to claim 1, characterized in that the selection code (3) and the response code (5) are displayed consecutively.

4. A logging-on method according to any one of claims 1 to 3, characterized in that the steps a)-d) are repeated, wherein at least the selection code (3) or the response code (5) are changed and only if the selected graphic (4) of the sequence of response codes (5) correlates with the stored selection code (3), logging onto the technical system is effected.

5. A logging-on method according to claim 4, characterized in that the number of the repetitions of the steps a) - d) and, thus, the number of selected graphics (4) of the response code (5) is individually determined by the system.

6. A logging-on method according to any one of claims 1 to 5, characterized in that a plurality of further graphics (2) is displayed in addition to the selection

code (3).

7. A logging-on method according to claim 6, characterized in that the graphics (2) are combined to units (6), wherein at least one unit (6) contains the selection code (3), and in that the units (6) are provided with identifications (7), wherein the identifications (7) of the at least one unit (6) which contains the selection code (3) is clearly contained in the user code (11).

8. A logging-on method according to any one of claims 1 to 7, characterized in that a plurality of further graphics (4) is displayed in addition to the response code (5).

9. A logging-on method according to claim 8, characterized in that the graphics (4) are combined to sets (8), wherein at least one set (8) contains the response code (5), and in that the sets (8) are provided with identifications (9), wherein the identifications (9) of the at least one set (8) which contains the response code (5) are clearly contained in the user code (11).

10. A logging-on method according to any one of claims 1 to 9, characterized in that the selection of the graphic (4) of the response code (5) is effected by directly selecting this graphic (4), e.g. via a touch-screen.

11. A logging-on method according to any one of claims 1 to 9, characterized in that the selection of the graphic (4) of the response code (5) is effected by selecting a keyboard (10) key associated to the graphic (4).

12. A logging-on method according to any one of claims 1 to 11, characterized in that the color and/or the shape and/or the pattern and/or the movement of at least one graphic (4) of the response code (5) is (are) clearly associated with at least one graphic (2) of the selection code (3).

13. A logging-on method according to any one of claims 1 to 12, characterized in that the steps a) to d) can be repeated if the selected graphic (4) of the

response code (5) does not correlate with the stored user code (11).

14. A logging-on method according to claim 13, characterized in that the steps a) to d) are repeated a limited number of times.

15. A logging-on method according to any one of claims 1 to 14, characterized in that the transmission of the selected graphic (4) of the response code (5) to the technical system for comparison with the user code (11) is encrypted.

16. A logging-on method according to any one of claims 1 to 15, characterized in that the transmission of the selection code (3) to be displayed and/or of the response code (5) to be displayed is (are) encrypted.

17. A device for the safe logging onto a technical system (20) comprising a display (1) for displaying a selection code (3) consisting of a plurality of graphics (2), and a display (1) for displaying a response code (5) consisting of a plurality of graphics (4),

characterized in that a device (17) for selecting from the response code (5) at least one graphic (4) whose property(ies), according to a user code (11) stored in the technical system (20), is (are) clearly associated to at least one property of at least one graphic (2) of the selection code (3), and a device (19) for checking the selected graphic (4) of the response code (5) according to the stored user code (11), which checking device (19) is designed for effecting logging onto the technical system (20) if the selected graphic (4) of the response code (5) correlates with the user code (11) stored.

18. A device according to claim 17, characterized in that the display (1) is designed for the simultaneous illustration of the selection code (3) and the response code (5).

19. A device according to claim 17 or 18, characterized in that the device (17) for selecting at least one graphic (4) of the response code (5) is formed by a keyboard (10).

20. A device according to claim 17 or 18, characterized in that the device (17) for selecting at least one graphic (4) of the response code (5) is formed by a touch-screen (10).

21. A device according to any one of claims 17 to 20, characterized in that a device (18) for encrypting the transmission of the selected graphic (4) of the response code (5) to the technical system (20) and/or for the transmission of the selection code (3) and/or of the response code (5) to the display (1) is provided.